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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,173	02/13/2004	Yoshiyuki Kiya	HITA.0514	4479

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EXAMINER

CHIEN, LUCY P

ART UNIT	PAPER NUMBER
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2871

DATE MAILED: 03/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/777,173

Applicant(s)

KIYA ET AL.

Examiner

Lucy P. Chien

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 2,3 and 7-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 4-6 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1-3,5,6 are rejected under 35 U.S.C. 102(b) as being anticipated by Katayama et al (US 5151807).

Katayama et al discloses in Figure 13, a plurality of films including an insulation film (111), a semiconductor film (113), and a conductive film (105a, or 126b) are patterned in a given pattern and stacked on a substrate (101).

Katayama et al also discloses (Column 19, Row 34-40) the correction portion which separates a short-circuit defect is corrected. A upper layer (Figure 13,(120)) is present above the film to be corrected (Figure 13,(101)) at the correction portion and the correction is applied to the film to be corrected while leaving the upper-layer film as it is. (Column 18, Row 61-68 and Column 19, Rows 1-4).

Regarding Claim 2.

Katayama et al discloses the correction portion is performed by the irradiation of laser beams. (Column 18, Row 61-68 and Column 19, Rows 1-4).

Regarding Claim 3.

Katayama et al discloses the correction portion is performed by irradiating the laser beams from a side opposite to the substrate. (Column 18, Row 61-68 and Column 19, Rows 1-4).

Regarding Claim 5.

Katayama et al discloses in Figure 13 the upper-layer film (113) above the film to be corrected (101) includes a transparent insulator (117).

Regarding Claim 6.

Katayama et al discloses the correction portion is performed by irradiating the laser beams from a side opposite to the substrate. (Column 18, Row 61-68 and Column 19, Rows 1-4). The corrected state is the normal performing state.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Katayama et al (US 5151807) in view of Liu et al (US 5518956).

Katayama et al does not disclose dividing the laser beams plural times.

Liu et al disclose the laser beam being pulsed, which divides the laser beams plural times. (Column 4, Row 64-67 and Column 5, Row 1-20) Control of the laser pulse rate determines the number of laser pulses delivered per second and thus effects the rate of ablation of the material in which the laser beam is absorbed.

It would have been obvious to one of ordinary skill in the art, at the time when the invention was made to have Katayama's display device to include Liu et al's pulsing laser beam to control the laser pulse rate to control how much power being irradiated to the material. (Column 4, Row 64-67 and Column 5, Row 1-20)

Response to Arguments

Applicant's arguments filed 12/29/2005 have been fully considered but they are not persuasive.

Applicant's argument that Katayama et al does not disclose "the correction of the correction portion is performed by the irradiation of a laser beam through the at least one upper layer film from a side opposite to the substrate" is not persuasive.

Katayama et al discloses (Column 20, rows 32-36) that In the present example, although the laser beam is radiated from the glass substrate 101 side, it can be radiated from any substrate if both substrates are made of a material through which laser beams can be transmitted.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lucy Chien
Examiner
Art Unit 2871
LC


ANDREW SCHECHTER
PRIMARY EXAMINER